Cleveland Clinic Adopts AI for Clinical Trial Recruitment with Dyania Health Partnership

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Dyania Health's proprietary platform, Synapsis AI, will support the clinic's recruitment efforts and potentially other research applications in the future.

The Cleveland Clinic has partnered with Dyania Health to use artificial intelligence in identifying patients for clinical trials, aiming to streamline the recruitment process and improve efficiency.

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Before the partnership, Cleveland Clinic relied on manual chart reviews to identify eligible patients, a process described as time-consuming and limited. "How we were recruiting for clinical trials, it was a very painful,

archaic, inefficient exercise that was frustrating to anybody who is involved in that cycle of clinical trials, not just in the Cleveland Clinic, but nationally," said Lara Jehi, M.D., chief research information officer at The Cleveland Clinic.

Synapsis AI analyzes medical records across the clinic's patient population, allowing daily updates on eligibility for ongoing trials. "The problem with that is that besides the time that is being consumed, this is a very limited, narrow view of the whole pool of patients that could potentially benefit from the intervention," Jehi added.

Dyania Health, which launched out of stealth in October 2024, has raised $10 million in Series A funding led by HealthX Ventures, with participation from Tech Square Ventures and Cleveland Clinic Ventures. The platform uses multiple AI models to address the challenge of changing patient characteristics over time.

Pilot programs demonstrated significant improvements in trial recruitment. For a melanoma study, Synapsis AI identified all eligible patients in 2.5 minutes with 96% accuracy, compared to 400 minutes using manual review.

In one week for a cardiology trial, the system reviewed 1.2 million patient records and identified twice as many eligible participants as three months of traditional recruitment.

The technology also increases access to patients across the Cleveland Clinic's health system, which includes more than 220 locations in Ohio and additional sites globally. "Research coordinators are often missing patients who are not going in to see a specialist, who are maybe being seen in a community site that's not at the main campus," said Eirini Schlosser,

founder and CEO of Dyania Health. In one cancer study, 80% of participants came from community clinics, and a cardiovascular trial saw 37% higher diversity in the patient population using AI-assisted recruitment.

Synapsis AI will be implemented in phases across various disciplines, with executives noting the system's potential to enhance trial enrollment and patient representation across the clinic's research programs.

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